TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-06-22-02** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-17
Sample ID No	:	2017-06-22-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	22-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.5	298.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.9	68.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.2	229.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	23.4	22.8
6	Aggregate impact value (Mean of two tests)	Pecentage	23.1	

Note:-

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Prepared By:
Harshitha

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-22-02** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-17
Sample ID No	:	2017-06-22-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	22-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Quality Manager

Prepared By:
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ಪೆದ್ದಿಪಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಆರ್.ಆರ್. ನಗರ, ಕೆಂಪೇಗೌಡ ನಗರ, ಬೆಂಗಳೂರು

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-06-23-01** **Date: 24-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-17
Sample ID No	:	2017-06-23-01/01
Type of Mix	:	BC-Plant (Bituminous Macadam)
Date of test		23-06-17
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	162	162	3.2	96.8	90-100
13.2	510	672	13.4	86.6	56-88
4.75	2750	3422	68.4	31.6	16-36
2.36	910	4332	86.6	13.4	4-19
0.3	355	4687	93.7	6.3	2-10
0.075	230	4917	98.3	1.7	0-8
PAN	83	5000	100.0	0.0	0

Note:-

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Quality Manager

Prepared By:
Harshitha

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2017-06-23-02 **Date: 24-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-17
Sample ID No	:	2017-06-23-02/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	23-06-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	83	83	1.7	98.3	90-100
9.5	697	780	15.6	84.4	70-88
4.75	902	1682	33.6	66.4	53-71
2.36	591	2273	45.5	54.5	42-58
1.18	488	2761	55.2	44.8	34-48
0.6	507	3268	65.4	34.6	26-38
0.3	533	3801	76.0	24.0	18-28
0.15	449	4250	85.0	15.0	12-20
0.075	358	4608	92.2	7.8	4-10
PAN	392	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-06-23-02** **Date: 26-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-17
Sample ID No	:	2017-06-23-02/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	23-06-17
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.7	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

Note:
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-06-23-02**	**Date: 26-06-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements Asphalting at Prashanth nagara and Kalyana nagara in Ward no.13 Mallasandra Ward no.13 Shettyhalli Sub division.	
Agency	:	Technical Manager (West), KRIDL, Project Implimentation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar-560010	
Customer Reference	:	BBMP/EE/DD/WO/114/2017-18	
Source of Sample	:	Hot Mix Plant, Bangalore	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-06-17	
Sample ID No	:	2017-06-23-02/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	23-06-17	

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.19	11.28	10KN(min)
2	Marshal flow at 60°C, mm	3.57	3.62	2-4
3	Percent air Voids	4.17	4.19	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.68	14.22	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.5	71.80	65-75
6	Density, g/cc	2.26	2.25	–

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